

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

SUPPLEMENTAL SPECIFICATION

Section 507—Prestressed Concrete Bridge Members

Delete Subsection 507.1 and substitute the following:

507.1 General Description

This work consists of furnishing prestressed concrete bridge members, complete in place, except as noted for piling in this Specification. The work includes all items and work necessary to complete the erection according to the Plans and Specifications. All prestressed concrete bridge member nominal lengths shown on the plans are horizontal dimensions. The contractor will be responsible for adjusting the lengths, as necessary, to account for the final erected position of the member. Fabricate the ends of all members to be vertical in the final erected position. Slope bearing assemblies to accommodate the erected position of the member.

507.1.01 Definitions

PSC: Prestressed concrete. Prestressed concrete may be designated “PSC” in Specifications and on Plans and other documents.

507.1.02 Related References

A. Standard Specifications

[Section 109—Measurement and Payment](#)

[Section 500—Concrete Structures](#)

[Section 501—Steel Structures](#)

[Section 506—Expanded Mortar](#)

[Section 520—Piling](#)

[Section 865—Manufacture of Prestressed Concrete Bridge Members](#)

B. Referenced Documents

General Provisions 101 through 150.

507.1.03 Submittals

A. Erection Drawings

Furnish erection drawings to the Department only when the units are not interchangeable with respect to the following:

- Transverse placement within a span
- Longitudinal reversal within a span

The drawings shall cover superstructure unit placement, including bearing components.

B. Shop Drawings

Submit shop drawings to the Department on standard Plan size 22 in x 36 in (550 mm x 900 mm) sheets showing complete beam details of the following:

- Nonprestressed reinforcement
- The method of retaining depressed strands in place
- Calculations for determining the strand elongation required to produce the specified pretensioning force
- Detensioning schedule
- Increased length of beam due to vertical alignment

As an option, shop drawings may be submitted on plan sheet sizes of 12" x 18" (305 mm x 457 mm) or 11" x 17" (279 mm x 432 mm) for review and approval. Information contained on these sheets must be legible.

After shop drawings have been approved, submit an electronic file that is compatible with Bentley Microstation J (Version 7) Cadd operating system, or an electronic file in Adobe Acrobat Portable Document Format (.pdf) to the Engineer. For bridges carrying railroads only, after shop drawings have been approved, submit one full size set of reproducible drawings to the Department.